

Notice of Allowability

Application No.

10/051,441

Examiner

Wen-Tai Lin

Applicant(s)

AMIRISETTY ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/3/2006.
2. ☒ The allowed claim(s) is/are 1-36, 38-62, 64-73 and 75-88, renumbered as 1-85.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable, an amendment may be filed as provided by 37 C.F.R. 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Authorization for the examiner's amendment was given in a telephone interview with Mr. Robert Kowert, reg. no. 39255, on July 28, 2006.

2. In the claims: Please cancel claims 37, 63, and 74, and amend claims 18, 36, 38, 51, 62, 64, and 73, as indicated below:

18. (Currently amended) A method comprising:

an application sending to [[a]] an application server container a high-level function call corresponding to a high-level function of a system external to the application;

the application server container mapping the high-level function call to a series of low-level function calls to the external system;

the application server container driving a connector to the external system to make the series of low-level function calls to the external system; and

the external system executing the series of low-level functions as specified by the series of low-level function calls received from the connector, wherein said executing the series of low-level functions performs the high-level function of the external system corresponding to the high-level function call.

36. (Currently amended) A system comprising:

an Enterprise Information System (EIS);

an application;

a container, wherein the EIS is external to the container, and wherein the container comprises:

a connector, wherein the connector is configured to provide an interface between low-level functions of the EIS and the application;

an adapter configured to:

receive a high-level function call from the application, wherein the high-level function call specifies a high-level function of the EIS;

map the high-level function call to a series of low-level function calls to the EIS; and

drive the connector to make the series of low-level function calls to the EIS;

wherein in said mapping the high-level function call to a series of low-level function calls to the EIS, the adapter is further configured to:

access metadata corresponding to the high-level function call, wherein the metadata describes the high-level function of the EIS; and

perform one or more transformations on the high-level function call in accordance with the metadata to produce a data object, wherein the data object includes information for driving a connector to the EIS to make a plurality of low-level calls to the EIS to perform the high-level function;

wherein the EIS is configured to execute the series of low-level functions in response to the series of low-level function calls, wherein said executing the series of low-level functions performs the high-level function of the EIS specified by the high-level function call.

38. (Currently amended) The system as recited in claim 36 ~~[[37]]~~, further comprising:

a metadata repository comprising metadata describing a plurality of high-level functions of the EIS;

wherein, in said accessing the metadata corresponding to the high-level function call, the adapter is further configured to access the metadata corresponding to the high-level function call from the metadata repository.

51. (Currently amended) A system, comprising:

an Enterprise Information System (EIS);

an application;

[[a]] an application server container, wherein the EIS is external to the application server container, and wherein the application server container comprises:

a connector, wherein the connector is configured to provide an interface between low-level functions of the EIS and the application;

means for receiving a high-level function call from the application;

means for mapping the high-level function call to a series of low-level function calls to the EIS; and

means for driving the connector to make the series of low-level function calls to the EIS;

wherein the EIS is configured to execute the series of low-level functions in response to the series of low-level function calls, wherein said executing the series of low-level functions performs a high-level function of the EIS corresponding to the high-level function call.

62. (Currently amended) A metadata-aware adapter for a connector to an Enterprise Information System (EIS), configured to:

receive a high-level function call for a high-level functions of the EIS;

map the high-level function call to a series of low-level function calls to the EIS;
and

drive the connector to make the series of low-level function calls to the EIS;

wherein in said mapping the high-level function call to a series of low-level function calls to the EIS, the metadata-aware adapter is further configured to:

access metadata corresponding to the high-level function call, wherein the metadata describes the high-level function of the EIS; and

perform one or more transformations on the high-level function call in accordance with the metadata to produce a data object, wherein the data object includes information for driving the connector to the EIS to make a plurality of low-level calls to the EIS to perform the high-level function;

wherein the EIS is configured to execute the series of low-level functions in response to the series of low-level function calls, wherein said executing the series of low-level functions performs the high-level function of the EIS.

64. (Currently amended) The metadata-aware adapter as recited in claim 62 [[63]], wherein, in said accessing the metadata corresponding to the high-level function call, the metadata-aware adapter is further configured to access the metadata corresponding to the high-level function call from a metadata repository comprising metadata describing a plurality of high-level functions of the EIS.

73. (Currently amended) A tangible computer readable medium comprising program instructions, wherein the program instructions are computer-executable to implement:

an application sending to a container a high-level function call corresponding to a high-level function of a system external to the application;

the container mapping the high-level function call to a series of low-level function calls to the external system;

the container causing a connector to the external system comprised in the container to make the series of low-level function calls to the external system; ~~and~~

the external system executing the series of low-level functions as specified by the series of low-level function calls received from the connector, wherein said executing the

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series of low-level functions performs the high-level function of the external system corresponding to the high-level function call;

the container receiving results of said executing the plurality of low-level functions;

the container storing the results of said executing the plurality of low-level functions in a results data object;

the container performing one or more transformations on the results data object to generate an output data object, wherein the output data object includes the results of the high-level function; and

the container providing the output data object to the application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Tai Lin whose telephone number is (571)272-3969. The examiner can normally be reached on Monday-Friday (8:00-5:00) .

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571)272-3964. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(571)273-8300 for official communications; and

(571)273-3969 for status inquires draft communication.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wen-Tai Lin

July 31, 2006

Wen-Tai Lin
7/31/06